Contract Amendments as a result of International Space Station (ISS) Commercial Resupply Services 2 (CRS2) Request for Proposal (RFP) NNJ14507542R Questions and Answers Posting #3

Standard Form-30 Item 14 continuation

20.(Q&A #63,25) From:

II.A.25 GOVERNMENT FURNISHED SERVICES AND DATA

(d) The Government will make available the payload preparation capabilities at Kennedy Space Center (KSC) which meet the requirements defined in Attachment V.M., Payload Processing Capabilities Required at Launch and Landing Site.

And:

ATTACHMENT V.M. PAYLOAD PROCESSING CAPABILITIES REQUIRED AT LAUNCH AND LANDING SITE

Payload Processing Capabilities Required at Launch Site

2. FACILITIES

<u>International Space Station Environmental Simulator</u> (ISSES) - provides a capability to conduct ground control tests using real-time ISS telemetry control variables.

- Three 600 sq. ft. ISSES Environmental Chambers
- Supports Near Real Time (10 Minute Delay) ISS Data Collection to replicate ISS environment (Temperature, Lighting, Carbon Dioxide [CO2], Relative Humidity)
- Support for ground control using ISS replicated environmental data
- Delayed replay of the ISS environmental conditions to each chamber, available to replicate past mission environments
- Supports customer specific profiles for hardware / science testing and verification
- Remote web cam provides offsite monitoring capabilities
- Chamber environment continuously monitored and supported by NASA personnel
- Records real time environmental chamber data for future analysis

To:

(d) Deleted

<u>And</u>

ATTACHMENT V.M. PAYLOAD PROCESSING CAPABILITIES REQUIRED AT LAUNCH AND LANDING SITE

Payload Processing Capabilities Required at Launch Site

2. FACILITIES

<u>International Space Station Environmental Simulator</u> (ISSES) - provides a capability to conduct ground control tests using real-time ISS telemetry control variables.

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- Delayed replay of the ISS environmental conditions to each chamber, available to replicate past mission environments
- Supports customer specific profiles for hardware / science testing and verification
- Remote web cam provides offsite monitoring capabilities
- · Chamber environment continuously monitored and supported
- Records real time environmental chamber data for future analysis

21.(Q&A #64) From:

VI.A.21 MISSION SUITABILITY PROPOSAL INSTRUCTIONS (COMPETITIVE)

Subfactor C – Small Business Utilization

(vii) In addition to submitting a Small Business Subcontracting Plan in accordance with Section I, FAR clause 52.219-9, Alternate II, Offerors shall complete the Small Business Subcontracting Table A below, which provides a breakdown of the Offeror's proposed goals, by small business category, expressed in terms of both a percent of TOTAL CONTRACT VALUE and a percent of TOTAL PLANNED SUBCONTRACTS. Offerors shall modify the table to

show the proposed subcontracting goals for the basic contract requirement and each option separately.

<u>To</u>:

VI.A.21 MISSION SUITABILITY PROPOSAL INSTRUCTIONS (COMPETITIVE) Subfactor C – Small Business Utilization

(vii) In addition to submitting a Small Business Subcontracting Plan in accordance with Section I, FAR clause 52.219-9, Alternate II, Offerors shall complete the Small Business Subcontracting Table A below, which provides a breakdown of the Offeror's proposed goals, by small business category, expressed in terms of both a percent of TOTAL CONTRACT VALUE and a percent of TOTAL PLANNED SUBCONTRACTS. Offerors shall modify the table to show the proposed subcontracting goals for the basic contract requirement and each option separately. Offerors who submit a commercial plan are not required to complete the Small Business Subcontracting Table A below.

22.(Q&A #71a,81) From:

VI.A.20 OFFER VOLUME

The Offeror shall provide a response to their intent to use property identified in Attachment V.J. Government Furnished Property.

<u>To:</u>

VI.A.21 OFFER VOLUME

The Offeror shall provide a response to their intent to use property identified in Attachment V.J. Government Furnished Property. **Details on Offerors requests for additional Government property shall be included in this response (Attachment V.J "Contractor requested-TBP").**

23.(Q&A #79) From:

ATTACHMENT V.K. APPLICABLE AND REFERENCE DOCUMENTS

Applicable Documents are considered contractually binding.

Reference Documents are provided for general context or information purposes.

Applicable Documents

Document #	Revision	Document Title
51 U.S.C. Subtitle V, Ch. 509		Commercial Space Launch Activities
14 C.F.R. Ch. III		FAA Commercial Space Transportation Regulations
AS9100	С	Aerospace Quality Management Systems Requirements
ISO 90003	2004	Software Engineering – Guidelines for the Application of ISO 9001:2000 to Computer Software
JSC 35089	Final	Visiting Vehicle Operations Document
JSC 66617	Baseline	ISS Passive Thermal Control Systems (PTCS) Analysis Guide
NASA-STD 8739.8	1	Software Assurance Standard
NPR 8621.1	В	NASA Procedural Requirements for Mishap and Close Call Reporting, Investigating and Recordkeeping
NPR 8715.3	C	NASA General Safety Program Requirements
NPR 8715.6	A	NASA Procedural Requirements for Limiting Orbital Debris
SSP 30309	G (Draft)	Safety Analysis and Risk Assessment Requirements Document
SSP 30599	F (Draft)	Safety Review Process
SSP 41175-39	Baseline + PIRNs	Software Interface Control Document (ICD) Station Management and Control to International Space Station (ISS) Book 39, Commercial Orbital Transportation Services (COTS) Free Flyer Common Interface
SSP 42003	Part 1: H Part 2: C	Space Station Manned Base (SSMB) to Mobile Servicing System (MSS) Interface Control Document
SSP 42004	Part 1: K Part 2: C	Mobile Servicing System (MSS) to User (Generic) Interface Control Document
SSP 42131	E	Space Station Program Integrated Truss Segments P3 and S3 to Attached Payloads and Unpressurized Cargo Carriers (UCC) Standard Interface Control Document
SSP 50108	E + DCN 014	ISS Program Certification of Flight Readiness Process Document
SSP 50123	С	Configuration Management Handbook
SSP 50190	Е	Contingency Action Plan
SSP 50482	D	ISS Program Software Management Plan
SSP 50521	Е	Return, Processing, Distribution and Archiving of Imagery Products from the International Space Station
SSP 50525	Baseline	ISS Ground Segment SART Security Management Plan
SSP 50808	F	International Space Station (ISS) to Commercial Orbital Transportation Services (COTS) Interface Requirements Document (IRD)

SSP 50833	A + DCNs	International Space Station Program Cargo Transport
		Interface Requirements Document
SSP 50902	A	Transportation Integration Office Certification of Flight
		Readiness Implementation Plan
		Common Communications for Visiting Vehicles (C2V2)
SSP 50934	A	Radio Frequency (RF) Interface Control Document (ICD)
		Part 1
CCD 50064	Baseline +	V:-'4' V-1-'-1- ICC I-44' DI
SSP 50964	DCN	Visiting Vehicle ISS Integration Plan
SSP 57003	J	Attached Payload Interface Requirements Document
	Е	Attached Payload Interface Requirements Document –
CCD 57002 EL C		EXpedite the PRocessing of Experiments to Space Station
SSP 57003-ELC		(EXPRESS) Logistics Carrier (ELC) Cargo Interface
		Requirements
SSD 57004	G	Attached Payload Hardware Interface Control Document
SSP 57004		Template
SSP 57004-ELC	Е	Attached Payload Interface Control Document –
		EXPRESS Logistics Carrier (ELC) Cargo Interface
		Control Document Template

Reference Documents

Document #	Revision	Document Title
NASA-HDBK-6003	С	Application of Data Matrix Identification Symbols to Aerospace Parts Using Direct Part Marking Methods/Techniques
NASA-STD-6002	D	Applying Data Matrix Identification Symbols on Aerospace Parts
SSP 50261-01		Generic Groundrules, Requirements, and Constraints Part 1: Strategic and Tactical Planning

<u>To</u>:

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SSP 50108	E + DCN 014	ISS Program Certification of Flight Readiness Process Document
SSP 50123	С	Configuration Management Handbook
SSP 50190	Е	Contingency Action Plan

SSP 50482	D	ISS Program Software Management Plan
SSP 50521	Е	Return, Processing, Distribution and Archiving of Imagery Products from the International Space Station
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SSP 50833	A + DCNs	International Space Station Program Cargo Transport Interface Requirements Document
SSP 50902	A	Transportation Integration Office Certification of Flight Readiness Implementation Plan
SSP 50934	A	Common Communications for Visiting Vehicles (C2V2) Radio Frequency (RF) Interface Control Document (ICD) Part 1
SSP 50964	Baseline + DCN	Visiting Vehicle ISS Integration Plan
SSP 57003	J	Attached Payload Interface Requirements Document
SSP 57003-ELC	Е	Attached Payload Interface Requirements Document – EXpedite the PRocessing of Experiments to Space Station (EXPRESS) Logistics Carrier (ELC) Cargo Interface Requirements
SSP 57004	G	Attached Payload Hardware Interface Control Document Template
SSP 57004-ELC	Е	Attached Payload Interface Control Document – EXPRESS Logistics Carrier (ELC) Cargo Interface Control Document Template

Reference Documents

Document #	Revision	Document Title
JSC 66617	Baseline	ISS Passive Thermal Control Systems (PTCS) Analysis Guide
NASA-HDBK-6003	С	Application of Data Matrix Identification Symbols to Aerospace Parts Using Direct Part Marking Methods/Techniques
NASA-STD-6002	D	Applying Data Matrix Identification Symbols on Aerospace Parts
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